Zhaomin Li

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3615469/publications.pdf

Version: 2024-02-01

108	3,210	159585	182427
papers	citations	30	51
		h-index	g-index

108	108	108	1596
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Utilization of Surfactant-Stabilized Foam for Enhanced Oil Recovery by Adding Nanoparticles. Energy & Fuels, 2014, 28, 2384-2394.	5.1	302
2	Aqueous foam stabilized by partially hydrophobic nanoparticles in the presence of surfactant. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 471, 54-64.	4.7	169
3	Study of Nanoparticleâ€“Surfactant-Stabilized Foam as a Fracturing Fluid. Industrial & Engineering Chemistry Research, 2015, 54, 9468-9477.	3.7	136
4	Experimental Study of the Stabilization of CO₂ Foam by Sodium Dodecyl Sulfate and Hydrophobic Nanoparticles. Industrial & Engineering Chemistry Research, 2016, 55, 1243-1253.	3.7	103
5	Properties of Carbon Dioxide Foam Stabilized by Hydrophilic Nanoparticles and Hexadecyltrimethylammonium Bromide. Energy & Fuels, 2017, 31, 1478-1488.	5.1	91
6	Relationship between Blocking Performance and Foam Texture in Porous Media. Geofluids, 2019, 2019, 1-12.	0.7	84
7	Diffusion coefficients of supercritical CO 2 in oil-saturated cores under low permeability reservoir conditions. Journal of CO2 Utilization, 2016, 14, 47-60.	6.8	81
8	Enhanced Oil Recovery of Low-Permeability Cores by SiO₂ Nanofluid. Energy & Fuels, 2017, 31, 5612-5621.	5.1	79
9	CO₂ foam properties and the stabilizing mechanism of sodium bis(2-ethylhexyl)sulfosuccinate and hydrophobic nanoparticle mixtures. Soft Matter, 2016, 12, 946-956.	2.7	78
10	Determination of diffusion coefficients of supercritical CO2 under tight oil reservoir conditions with pressure-decay method. Journal of CO2 Utilization, 2018, 24, 430-443.	6.8	72
11	Monitoring of CO2 and CO2 oil-based foam flooding processes in fractured low-permeability cores using nuclear magnetic resonance (NMR). Fuel, 2020, 263, 116648.	6.4	69
12	Effect of flue gas and n -hexane on heavy oil properties in steam flooding process. Fuel, 2017, 187, 84-93.	6.4	64
13	CO 2 and viscosity breaker assisted steam huff and puff technology for horizontal wells in a super-heavy oil reservoir. Petroleum Exploration and Development, 2011, 38, 600-605.	7.0	62
14	Properties of CO₂ Foam Stabilized by Hydrophilic Nanoparticles and Nonionic Surfactants. Energy & Fuels, 2019, 33, 5043-5054.	5.1	61
15	Investigation of the Effect of Nanoparticle-Stabilized Foam on EOR: Nitrogen Foam and Methane Foam. ACS Omega, 2020, 5, 19092-19103.	3.5	59
16	Nanoparticles for Inhibition of Asphaltenes Deposition during CO₂ Flooding. Industrial & Engineering Chemistry Research, 2016, 55, 6723-6733.	3.7	58
17	Experimental Study on Foamy Oil Flow in Porous Media with Orinoco Belt Heavy Oil. Energy & Fuels, 2012, 26, 6332-6342.	5.1	56
18	Effect of fracture on production characteristics and oil distribution during CO2 huff-n-puff under tight and low-permeability conditions. Fuel, 2019, 246, 117-125.	6.4	55

#	Article	IF	Citations
19	Stability and Flow Properties of Oil-Based Foam Generated by CO2. SPE Journal, 2020, 25, 416-431.	3.1	46
20	Experimental study and application on profile control using high-temperature foam. Journal of Petroleum Science and Engineering, 2011, 78, 567-574.	4.2	44
21	The effect of permeability on supercritical CO2 diffusion coefficient and determination of diffusive tortuosity of porous media under reservoir conditions. Journal of CO2 Utilization, 2018, 28, 1-14.	6.8	43
22	Characterization of Produced and Residual Oils in the CO₂ Flooding Process. Energy & Fuels, 2016, 30, 54-62.	5.1	42
23	Experimental investigation of nitrogen-assisted SAGD in heavy-oil reservoirs: A two-dimensional visual analysis. Fuel, 2019, 257, 116013.	6.4	41
24	Accurate Determination of the CO₂â€“Brine Interfacial Tension Using Graphical Alternating Conditional Expectation. Energy & Fuels, 2014, 28, 624-635.	5.1	38
25	Ethanol enhanced anionic surfactant solubility in CO2 and CO2 foam stability: MD simulation and experimental investigations. Fuel, 2020, 267, 117162.	6.4	37
26	A novel strategy to reduce carbon emissions of heavy oil thermal recovery: Condensation heat transfer performance of flue gas-assisted steam flooding. Applied Thermal Engineering, 2022, 205, 118076.	6.0	36
27	Effect of CO2 on Heavy Oil Recovery and Physical Properties in Huff-n-Puff Processes Under Reservoir Conditions. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	35
28	A novel system for reducing CO2-crude oil minimum miscibility pressure with CO2-soluble surfactants. Fuel, 2020, 281, 118690.	6.4	35
29	Experimental study and application of tannin foam for profile modification in cyclic steam stimulated well. Journal of Petroleum Science and Engineering, 2014, 118, 88-98.	4.2	34
30	Enhanced heavy oil recovery after solution gas drive by water flooding. Journal of Petroleum Science and Engineering, 2016, 137, 113-124.	4.2	34
31	Synthesis of Magnetic Graphene Oxide (MGO) and Auxiliary Microwaves To Enhance Oil Recovery. Energy & Fuels, 2019, 33, 9585-9595.	5.1	34
32	Effects of matrix permeability and fracture on production characteristics and residual oil distribution during flue gas flooding in low permeability/tight reservoirs. Journal of Petroleum Science and Engineering, 2020, 195, 107813.	4.2	33
33	Effects of the Non-ionic Surfactant (C_iPO_j) on the Interfacial Tension Behavior between CO₂ and Crude Oil. Energy & Fuels, 2018, 32, 6708-6712.	5.1	32
34	Enhancing Sodium Bis(2-ethylhexyl) Sulfosuccinate Injectivity for CO2 Foam Formation in Low-Permeability Cores: Dissolving in CO2 with Ethanol. Energy & Fuels, 2018, 32, 5846-5856.	5.1	31
35	Experimental study on the dynamic filtration control performance of N 2 /liquid CO 2 foam in porous media. Fuel, 2017, 202, 435-445.	6.4	30
36	Flow Behavior and Displacement Mechanisms of Nanoparticle Stabilized Foam Flooding for Enhanced Heavy Oil Recovery. Energies, 2017, 10, 560.	3.1	29

#	Article	IF	Citations
37	Nanoparticleâ€Stabilized Foam for Mobility Control in Enhanced Oil Recovery. Energy Technology, 2016, 4, 1084-1096.	3.8	28
38	Silica nanoparticles as a high-performance filtrate reducer for foam fluid in porous media. Journal of Industrial and Engineering Chemistry, 2017, 45, 171-181.	5.8	28
39	The Effect of Oil Properties on the Supercritical CO2 Diffusion Coefficient under Tight Reservoir Conditions. Energies, 2018, 11, 1495.	3.1	28
40	Properties of multi-phase foam and its flow behavior in porous media. RSC Advances, 2015, 5, 67676-67689.	3.6	27
41	Investigation of EOR mechanism for flue gas assisted SAGD. Journal of Petroleum Science and Engineering, 2020, 193, 107420.	4.2	27
42	Hybrid CO2-N2 huff-n-puff strategy in unlocking tight oil reservoirs. Fuel, 2022, 309, 122198.	6.4	27
43	Multi-combination exploiting technique of ultra-heavy oil reservoirs with deep and thin layers in Shengli Oilfield. Petroleum Exploration and Development, 2010, 37, 732-736.	7.0	26
44	Wall slipping behavior of foam with nanoparticle-armored bubbles and its flow resistance factor in cracks. Scientific Reports, 2017, 7, 5063.	3.3	26
45	Application and Mechanisms of Self-Generated Heat Foam for Enhanced Oil Recovery. Energy & Fuels, 2018, 32, 9093-9105.	5.1	25
46	New insight into CO2 huff-n-puff process for extraheavy oil recovery via viscosity reducer agents: An experimental study. Journal of CO2 Utilization, 2020, 42, 101312.	6.8	25
47	Flow behavior of N2 huff and puff process for enhanced oil recovery in tight oil reservoirs. Scientific Reports, 2017, 7, 15695.	3.3	23
48	A visualization experimental study on gas penetration through interlayer to improve SAGD performance. Journal of Petroleum Science and Engineering, 2019, 177, 959-970.	4.2	23
49	Modeling of Sand Cleanout With Foam Fluid for Vertical Well. SPE Journal, 2010, 15, 805-811.	3.1	22
50	Performances of Different Recovery Methods for Orinoco Belt Heavy Oil after Solution Gas Drive. Energy & Fuels, 2013, 27, 3499-3507.	5.1	22
51	Mathematical models for foam-diverted acidizing and their applications. Petroleum Science, 2008, 5, 145-152.	4.9	21
52	Influence of confinement effect on recovery mechanisms of CO2-enhanced tight-oil recovery process considering critical properties shift, capillarity and adsorption. Fuel, 2020, 262, 116569.	6.4	20
53	Experimental study on the performance of foamy oil flow under different solution gasâ€“oil ratios. RSC Advances, 2015, 5, 66797-66806.	3.6	19
54	Synergistic Mechanism of Particulate Matter (PM) from Coal Combustion and Saponin from Camellia Seed Pomace in Stabilizing CO₂ Foam. Energy & Fuels, 2018, 32, 3733-3742.	5.1	18

#	Article	IF	Citations
55	Experimental study on dynamic filtration behavior of liquid CO2 in tight sandstone. Fuel, 2018, 226, 10-17.	6.4	18
56	Experimental study on the characteristics of foam flow in fractures. Journal of Petroleum Science and Engineering, 2020, 185, 106663.	4.2	18
57	Investigation of CO₂/N₂ injection in tight oil reservoirs with confinement effect. Energy Science and Engineering, 2020, 8, 1194-1208.	4.0	18
58	Experimental investigation of innovative superheated vapor extraction technique in heavy oil reservoirs: A two-dimensional visual analysis. Energy, 2022, 238, 121882.	8.8	18
59	Investigation of Surface Properties for Electrolyte Solutions: Measurement and Prediction of Surface Tension for Aqueous Concentrated Electrolyte Solutions. Journal of Chemical & Engineering Data, 2017, 62, 3783-3792.	1.9	17
60	Dynamic Filtration Behavior of Dry Supercritical CO₂ Foam with Nanoparticles in Porous Media. Industrial & Engineering Chemistry Research, 2019, 58, 15014-15025.	3.7	17
61	Experimental and Numerical Evaluation of Surfactant-Nanoparticles Foam for Enhanced Oil Recovery under High Temperature. Energy & Fuels, 2020, 34, 1005-1013.	5.1	17
62	Flow characteristics and EOR mechanism of foam flooding in fractured vuggy reservoirs. Journal of Petroleum Science and Engineering, 2022, 211, 110170.	4.2	17
63	Effect of Temperature on the Gas/Oil Relative Permeability of Orinoco Belt Foamy Oil. SPE Journal, 2016, 21, 170-179.	3.1	16
64	Fractal characterization of dynamic structure of foam transport in porous media. Journal of Molecular Liquids, 2017, 241, 675-683.	4.9	16
65	Behaviors of Foamy Oil Flow in Solution Gas Drive at Different Temperatures. Transport in Porous Media, 2015, 109, 25-42.	2.6	15
66	Interfacial Rheology of Foam Stabilized by Nanoparticles and Their Retention in Porous Media. Energy & Fuels, 2021, 35, 6541-6552.	5.1	15
67	Effects of low-salinity water on the interface characteristics and imbibition process. Journal of Petroleum Science and Engineering, 2022, 208, 109564.	4.2	15
68	Characteristics of CO2 foam plugging and migration: Implications for geological carbon storage and utilization in fractured reservoirs. Separation and Purification Technology, 2022, 294, 121190.	7.9	15
69	Nanoparticleâ€Stabilized Foam for Effective Displacement in Porous Media and Enhanced Oil Recovery. Energy Technology, 2016, 4, 1053-1063.	3.8	14
70	Investigation on in Situ Foam Technology for Enhanced Oil Recovery in Offshore Oilfield. Energy & Fuels, 2019, 33, 12308-12318.	5.1	14
71	Surface Wettability of Oxygen Plasma Treated Porous Silicon. Journal of Nanomaterials, 2014, 2014, 1-6.	2.7	13
72	Flow Characteristics of Foam in Fracture Networks. Industrial & Engineering Chemistry Research, 2020, 59, 19817-19828.	3.7	13

#	Article	IF	Citations
73	CO2huff and puff for heavy oil recovery after primary production. , 2016, 6, 288-301.		11
74	Establishment and application of a structure evolution model for aqueous foam based on fractal theory. RSC Advances, 2017, 7, 3650-3659.	3.6	11
75	Experimental investigation on the SiO2 nanoparticle foam system characteristics and its advantages in the heavy oil reservoir development. Journal of Petroleum Science and Engineering, 2022, 214, 110438.	4.2	11
76	Research on Enhancing Heavy Oil Recovery Mechanism of Flue Gas Assisted Steam Flooding. , 2017, , .		9
77	Formulation evaluation of an innovative composite foamed gel with high temperature and salinity compatibility in heavy oil reservoirs. Journal of Petroleum Science and Engineering, 2022, 210, 110007.	4.2	9
78	Study of Rheological Properties and Micro-mechanism of Heavy Oil Emulsion Prepared via Ultrasonic Dispersion. Energy & Fuels, 2020, 34, 15843-15854.	5.1	8
79	Carbon dioxide diffusions in Methane-Dissolved pore Fluids: Implications for geological carbon storage and utilization in tight formations. Chemical Engineering Journal, 2022, 429, 132147.	12.7	8
80	Experimental study on the enhanced oil recovery by in situ foam formulation. Energy Science and Engineering, 2020, 8, 1092-1103.	4.0	7
81	Experimental Study on the Mechanism of Nitrogen Foam to Improve the Recovery of Bottom-Water Heavy Oil Reservoir. Energy & Fuels, 2022, 36, 3457-3467.	5.1	7
82	Nanohydrodynamic Model and Transport Mechanisms of Tight Oil Confined in Nanopores Considering Liquidâ€“Solid Molecular Interaction Effect. Industrial & Engineering Chemistry Research, 2021, 60, 18154-18165.	3.7	6
83	The Impact of Ionic Liquid and Nanoparticles on Stabilizing Foam for Enhanced Oil Recovery. ChemistrySelect, 2018, 3, 12461-12468.	1.5	5
84	Dynamic simulation and experimental verification of foam transport in porous media based on level set method. Energy Science and Engineering, 2019, 7, 1795-1807.	4.0	5
85	Aqueous CO2 Foam Armored by Particulate Matter from Flue Gas for Mobility Control in Porous Media. Energy & Fuels, 2020, 34, 14464-14475.	5.1	5
86	Influence of the Interfacial Properties on the Stability of Water in Heavy Oil Emulsions in Thermal Recovery Process. Geofluids, 2020, 2020, 1-11.	0.7	5
87	A two-step co-evolutionary particle swarm optimization approach for CO₂ pipeline design with multiple uncertainties. Carbon Management, 2018, 9, 333-346.	2.4	5
88	Thermal flue gas utilization in delivering unconventional geo-energy. Fuel, 2022, 314, 123072.	6.4	4
89	Modeling of lifting heavy oil assisted by enclosed thermal fluid circulation in hollow rod. Journal of Petroleum Science and Engineering, 2010, 75, 135-142.	4.2	3
90	New evaluation function for the oil recovery and carbon sequestration of CO<SUB align="right">2-EOR project. International Journal of Computer Applications in Technology, 2016, 54, 14.	0.5	3

#	Article	IF	Citations
91	Impact of fluid property shift and capillarity on the recovery mechanisms of CO 2 injection in tight oil reservoirs. , 2019, 9, 965-978.		3
92	A nonlinear interval number programming algorithm for CO₂ pipeline transportation design under uncertainties. , 2019, 9, 261-275.		3
93	Effect of Flue Gas on Steam Chamber Expansion in Steamflooding. SPE Journal, 2022, 27, 399-409.	3.1	3
94	Investigation of the Heat Transfer Mechanism of CO2-Assisted Steam Injection via Experimental and Simulation Evaluation. Frontiers in Energy Research, 2020, 8, .	2.3	3
95	Assessing the performance of foams stabilized by anionic/nonionic surfactant mixture under high temperature and pressure conditions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 651, 129699.	4.7	3
96	Foam Fluid Flow Analysis in Helical Coiled Tubing Using CFD. Procedia Engineering, 2015, 126, 696-700.	1.2	2
97	Extrapolation of surface tensions of electrolyte and associating mixtures solutions. Chemical Engineering Science, 2017, 162, 10-20.	3.8	2
98	The influence of surfactants on the flow characterization of heavy oil. Petroleum Science and Technology, 2019, 37, 155-162.	1.5	2
99	Experimental study on nitrogen and nitrogen foam-assisted gravity drainage for enhancing oil recovery. Journal of Petroleum Exploration and Production, 2019, 9, 2625-2634.	2.4	2
100	Experimental Investigation on Microscopic Force Measurement of Foam and Heavy Oil. Langmuir, 2020, 36, 14748-14762.	3.5	2
101	Improved co-optimal and evaluable index of carbon sequestration and enhanced oil recovery. Simulation, 2021, 97, 145-154.	1.8	2
102	Analysis of Factors on Flue Gas Assisted SAGD Based on a 2D Visualization Physical Model. Energy & Fuels, 2021, 35, 14510-14518.	5.1	2
103	Black Rice Huskash is a Useful Template for Foam Stability to Enhance Oil Recovery (EOR). Chemistry and Technology of Fuels and Oils, 2021, 56, 962-970.	0.5	2
104	Aqueous Foams Stabilized with Particles and Surfactants. , 2012, , .		1
105	Roles of Flue Gas in Promoting Steam Flow and Heat Transfer in Multithermal Fluid Flooding. Mathematical Problems in Engineering, 2019, 2019, 1-8.	1.1	1
106	Heat-Resistant CO2 Foam for Promoting Carbon Capture and Enhanced Oil Recovery. Frontiers in Energy Research, 2022, 10, .	2.3	1
107	An overview of the reservoir simulation. , 2015, , .		0
108	Viscosity reduction of offshore heavy oil by application of a synthesized emulsifier and its microscopic mechanism during thermal recovery. Petroleum Science and Technology, 2021, 39, 421-429.	1.5	0